S12 Table. The details of mutation of HR-DDR related genes according to cancer type

Genepanel	Cancer Type	ARID1A	BRCA2	BRCA1	ATM	ATRX	CHEK2	BAP1	PALB2	NBN	BRIP1	WRN	BLM	FANCC	RAD50	MRE11A
295	Carcinoma of other sites										p.Ser269*;					
295	Colorectal cancer	p.Gln589*									p.Ala1030Val;		p.Arg959Gln;	p.His37=;		p.Asn511fs;
295	Carcinoma of other sites		p.Trp1692fs;		p.Ile487Phe;											
295	Lung cancer	p.Arg750*;p.Ser255fs;							p.Ala915Val;							
295	Liver cancer				p.Tyr303*;p.Ser751Phe;											
295	Melanoma	p.Pro478Ser				p.Arg1803fs;										
295	Sarcoma					p.Gln1569fs;										
295	Colorectal cancer	p.Arg1593Trp; p.Ala1522Thr;p.Ser2156Gly;	p.Arg2896His;p.Ser521fs;p.Gln2501=;	p.Lys339fs;	c.-30-5del;c.1236-8_1236-3del;c.4437-14del;p.Ser2812fs;c.497-6_497-4del;c.497-7_497-4del;p.Ala1421Val;c.2921+1G>A;			p.Ser105=;		c.703-20del;				p.Cys387=;		
295	Colorectal cancer				c.497-6_497-4del;c.497-7_497-4del;	p.Lys1169del;	p.Ser24=;								p.Lys722fs;	
295	Lung cancer														p.Arg1093*;	
295	Melanoma							c.375+2T>C;		amp:4.04;						
295	Melanoma		p.Ala2557Val;			p.Pro1267fs;				amp:3.68;			p.His1102Arg;			
295	Melanoma	p.Val1185fs;														
295	Melanoma									p.Gln581*;						
295	Gastric cancer	p.Arg1335*;	c.1909+7C>T;			p.Asp1247Asn;				amp:3.61;						
295	Colorectal cancer	p.Asp1850fs;p.Tyr1508Cys;			c.5178-4dup;c.1236-8_1236-3del;c.497-6_497-4del;c.4437-14dup;c.3576+5A>T;			c.122+2T>C;					p.Asn515fs;			
295	Lung cancer				p.Glu2236*;								p.Glu642=;			
295	Colorectal cancer	p.Asp1850fs;p.Gly242fs;			p.Arg2763*;c.4437-14del;c.3153+20del;	p.Arg1302fs;		p.Asp73Gly;		c.1398-10del;p.Leu281Val;			p.Lys1217fs;		c.3165-5del;p.Glu676Lys;	p.Arg502Cys;
295	Cervical cancer		p.Lys2909Asn;p.Glu2906*;													
295	Melanoma					p.Arg2111*;				amp:3.26;						
295	Melanoma			p.Ala322fs;												
1021	Colorectal cancer	p.A1272V;p.F2141Sfs*59;p.P1115Qfs*46;p.Q			p.T1558M;	p.A224T;									p.Q404Dfs*12;	
1021	Gallbladder cancer			p.D1337Y;p.Q1182_K1183delinsHR;p.E1213*;												
1021	Gastric cancer	p.Y222*;														
1021	Colorectal cancer	p.G276Efs*87;	p.T1414M;p.D2712E;p.T3085Qfs*19;		p.L1814Wfs*14;				p.T86Pfs*91;p.M664V;					p.D128G;	p.T777A;p.N934Ifs*6; p.K722Rfs*14;	
1021	Lung cancer														p.R1198*;	
1021	Endometrial cancer					p.T1582Qfs*24;										
1021	Gastric cancer	p.E2023*;p.L20p.Q268*;p.E1799Afs*7;														
1021	Carcinoma of other sites															
1021	Esophageal carcinoma			p.I42M;	p.K827*;											
1021	Colorectal cancer														p.K722Rfs*14;	
1021	Colorectal cancer		p.E3053G;		p.P604Lfs*10;			p.I87M;			p.S112N;					
1021	Colorectal cancer	p.Q1452Rfs*29							p.R37C;	p.F744Lfs*7;			p.S33L;		p.K722Gfs*5;	
1021	Colorectal cancer	p.R1276*;p.G1				p.P1228H;		p.V439M;	p.L1006*fs*1;	p.L654Afs*5;		p.N1250Ifs*24;		p.R174Q;	p.K722Rfs*14;	
1021	Colorectal cancer	p.S1961Rfs*54;		p.K339Rfs*2;									p.N515Mfs*16;		p.K722Rfs*14;	p.R400Qfs*3;